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Ecology Quiz

1. The branch of biology dealing with interactions among organisms and betweenorganisms and their environment iscalled

A) Chemistry

B) Economy

C) Ecology

D) Entomology

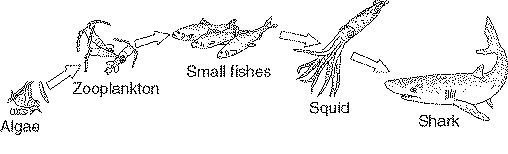
2. Which of the following descriptions about the organization of an ecosystem is correct?

A) Communities make up species, which make up populations

B) Populations make up species, which make up communities

C) Species make up communities, which make up populations

D) Species make up populations, which make up communities



3. The algae at the beginning of the food chain in the picture above is a(n):

A) Primary Consumer

B) Producer

C) Decomposer

D) Omnivore

4. What is an ecological model of the relationships that form a network of complex interactions among organisms in a community from producers to decomposers?

A) Food web

B) Food chain

C) Ecosystem

D) Population

5. How much energy is lost at each trophic level?

A) 50%

B) 90%

C) 10%

D) 25%

6. Carbon cycles through the biosphere in all of the following processes EXCEPT:

A) Photosynthesis

B) Transpiration

C) The burning of fossil fuels

D) Decomposition of plants and animals

7. The repeated movement of water between Earth’s surface and the atmosphere is called:

A) Precipitation

B) Evaporation

C) The condensation cycle

D) The water cycle

8. What is the original source of almost all the energy in most ecosystems?

A) Water

B) Carbon

C) Sunlight

D) Carbohydrates

9. Place the following in the correct place on the energy pyramid:

1. Orchard grass

2. Cougar

3. Coyote

4. Bunny

10. Why would you expect there to be a smaller biomass (amount) of big predators (lions, leopards, hunting dogs, etc.) than of grazing mammals (gazelles, zebras, elephants, etc.) in the African savanna?

A) There is too little cover for the predators to hide in.

B) Due to the inefficiency of energy transfer between trophic levels.

C) Like domestic cats, large predators are susceptible to hair balls.

D) Many predators occur in social groups, thus limiting their numbers.

1. Because grazers are better adapted to moving long distances, they can better follow the rains.

